

TO THE FARMERS

Farmers and others interested are invited to contribute to The Farm, The Dairy, The Turf, and Good Roads departments of The Guardian either by question, correspondence or otherwise. Answers will be given by experts to all questions of general interest and space will be given to any articles that will in any way help to advance Prince Edward Island interests.

Contributors are asked to have their articles at this office early each week, as only a short emergency item can be handled as late as one p.m. Wednesday. All received after that hour cannot appear until the following week.

THE SCHOOL AND THE HOME

Contributions for this department should be addressed to President Teachers' Association, Guardian's School and Home, P. O. Box 158, Charlottetown.

THE STUDY OF GEOGRAPHY.

(Specially Selected.)
The study of geography, small as is the part allotted to it in actual teaching, is one which must occupy a foremost place in any national system of primary education. When prejudices have passed away—as they must pass before a truer conception of the growth of a child's mind, and of the laws which govern that growth—the test of right teaching will be found in the correspondence of our instruction with the development of intellectual activity in those whom we instruct.

The starting-point of education will be the child's first question. And the child's first question is about the material world in which it finds itself. So long as every sight and every sound is an object of wonder, and of the curiosity that comes of wonder, life will be a mere string of "Whats" and "Whys."

With an amusing belief in the omniscience of his elders, the child asks why the moon changes and what are the stars, why the river runs and where the road goes and why the hills are so high and what is beyond them. To answer these questions as they should be answered is to teach the little questioner geography. Each of the divisions into which geography breaks does its part in his training, as the picture of the earth in which he lives grows into distinctness before him. He may never hear of physiography, but he learns in simple outline what are the forces that tell through heat and cold, or wind, why the hills are of the form of the earth, and make it the earth we see. The name of Physical Geography may never reach him, but he gets a notion of what the earth's form actually is, of the distribution of land and sea, of mountain and plain over its surface, of the relative position of continents and of countries, of the "why" rivers run and the "where" roads run to. As the structure of the world thus becomes distinct to the child, he sees why nations have settled, why armies within their boundaries, why armies have marched out and battles have been fought, why commerce has taken one road or another over sea and land, and thus gathers his historical geography without knowing it. So as he watches how mountains divide men or rivers draw them together, how hill-tops and water-parting become bounds of province and shire, how the town grows up by the stream and the port by the harbor-mouth, the boy lays the foundation of his political geography, though he never sees a "table of counties," or learns by rote a "list of populations."

Studied in such a fashion as this, geography would furnish a groundwork for all other instruction. It is in fact the natural starting-point for all subjects of later training. History strikes its roots in geography; for without a clear and vivid realization of the physical structure of a country the incidents of the life which men have lived in it can have no interest or meaning. Through history again politics strike their roots in geography, and many a rash generalization would have been avoided had political thinkers been trained in a knowledge of the earth they live in, and of the influence which its varying structure must needs exert on the varying political tendencies and institutions of the peoples who part its empire between them. Nor are history or politics the only studies which start naturally from such a groundwork. Physical science will claim every day a larger share in our teaching; and science finds its natural starting-point in that acquaintance with primary physics which enables a child to know how earth and the forms of earth came to be what they are.

THE PURPOSE OF THIS DEPARTMENT.
The Guardian School and Home Department was opened and is being conducted for the benefit of parents, teachers and others interested in the management and work of our schools and in the general training of the youth of this Province. It aims to awaken a keener public interest in educational problems, and, by affording the medium through which parents and teachers can learn each other's views on education matters, it aims to bring the school and the home into closer and more helpful relationship to one another. The School

and Home Department will welcome contributions from teachers or parents and will gladly publish such as are suitable. The only condition demanded is that the articles be published besides being brief and to the point, must be optimistic and encouraging and must seek to raise the subject of school improvement from the plane of vague discontent and suggestion to that of helpful suggestion and practical remedy. Young and inexperienced teachers, in their school difficulties and perplexities, may seek and obtain, through this Department, the advice and assistance of those who are older and more experienced than themselves. All teachers may use it for the exchange of opinions on matters of school management, discipline, and methods of teaching. Everybody interested in the improvement of educational conditions is cordially invited to contribute to its growing success.

Let me but do my work from day to day
In field or forest, at the desk or loom,
In roaring market place or tranquil room;
Let me but find it in my heart to say,
When vagrant wishes beckon me astray,
"This is my work—my blessing, not my doom;
Of all who live, I am the only one
By whom
This work can best be done, in the right way."
Then shall I see it not too great nor small
To suit my spirit and to prove my powers;
Then shall I cheerfully greet the laboring hours,
And cheerful turn, when the long shadows fall,
At eventide, to play and love and rest,
Because I know for me my work is best.
—Henry Van Dyke.

THE FARM

THE 'HENERY.

(Selected.)
Chickens that are penned up should have their houses cleaned out twice a week at least, and their run dug up (to loosen the earth) once a week, which enables them to have a little exercise in the way of scratching. Their morning meal should consist of potato peelings and all scraps from the table, boiled down and thickened, after draining well, with barley meal, with a dash of pepper in it when cooled down, given; their water vessels should be kept round it, and high enough for them to peck it, which keeps them busy for some considerable time and for a change, a swede hung is very good too. For their last meal give them barley, a little wheat or darry, and occasionally small Indian corn. A box kept in the run with all fine ashes saved from the house on washing days, if sifted well, gives them a bath. A handful of peppercorns thrown in to them about once a month helps to keep them in good condition, and the houses should be limewashed occasionally.

Repairs should be systematically made in order to have the machines ready for use at the time wanted. It is a good plan, when putting machines away, to make a note of what is needed in the way of repairs. This note may be attached to the implement. If repairs are needed, which come from the factory now is the time to let the local agent know, so that he can get it for you in time.

In the district where the beef raising industry is suitable, select large, roomy Shorthorn cows, that will give a fair amount of milk, as well as produce a good beef steer, when once a man has made a start to grade up his herd, he should stick to one breed, and one only. One of the chief causes of failure in the production of good beef cattle in Canada, has been the mixing of the breeds. A man should grade up steadily, always using a pure bred sire of good beef type, that is the offspring of a fair milking cow. It does not pay to feed small, undersized steers. Dairy steers, it is true, made gains equal to beef animals, but when killed it is found that they are lacking in the valuable cuts, that their carcasses is patchy, and lumpy and backs bare, whilst the intestines carry twice the quantity of intestinal fat that would be found in the beef steers. Moreover when these animals come upon the market, they sell from \$1.00 to \$3.00 per hundred below the regular price.

THE DAIRY

FRESH AIR MEANS MILK.
(Selected.)
We wonder how many dairy farmers who build barns and cow stables do so with the understanding that there are three things a cow lives on—food, water and air; that she will die the most quickly if the air is taken from her; that the life-giving element in the air is the oxygen; that you might about as well ask her to eat her food the second time as to compel her to breathe her supply of air twice or three times.

Men who have given these important matters thought and attention provide a system of ventilation, like the King system for instance, whereby they can keep up the warmth of the stable room and at the same time supply the cow with plenty of fresh air full of life-giving oxygen.

The man who does not furnish his cows with pure air at the right temperature is standing bodily in his own light. He is in reality trying to rob the cow of one of the most important elements of her food supply.

These things have been talked about written about, and denigrated almost without number, yet have passed lots of new barns the present summer without an adequate system of ventilation. The reason for this is that these farmers are keeping cows without realizing the value of pure air. They will pile up the food and drink and let their cows poison themselves with foul air, and such men really call themselves dairymen. It is almost painful to contemplate the rank injustice they inflict upon their cows and themselves, yet, sublimely unconscious of it all, spending money to build expensive stables with no knowledge that the oxygen which God gives freely is one of the most important foods the cow consumes.—Hoard's Dairyman.

Some cows will not produce more than 100 lbs. of butter fat in a year, and there are others that have produced 1,000 lbs. of fat in the same length of time. With butter fat at 30 cents a pound the 100 lb. cow would produce \$30 worth of butter fat in a year and the other one would produce \$300 worth.

THE MARKETS

HALLAM'S WEEKLY MARKET REPORT, HIDES, SKINS, WOOL, JUNK.

Beefhides are selling slowly with stocks accumulating. Tanners looking for lower prices as season advances. City Butcher Hides, green, flat 12½¢ per lb. Inspected Hides No. 1 13¢. No. 2 12¢. No. 3 11¢. Country Hides, flat, cured, 12½ to 13½¢. Part cured, 12 to 12½¢. Green 11½ to 12¢. Calfskins are accumulating, and are slow sale at current prices. City skins green, flat 15¢. Country green, flat 15¢, part cured 16¢, cured 17¢.

Horsehides are in good demand with fair supply. City take off \$3.50 to \$4.00. Country take off No. 1 \$3.50 to \$4.00. No. 2, \$2.50 to \$3.50.

Sheepskins unchanged at previous quotations. City take off according to size \$1.00 to \$1.50. Country 75¢ to \$1.50.

Wool unchanged, deliveries very light, demand absorbing supply. Washed combing fleece 22 to 23¢. Clothing 25 to 26¢. Rejects 17 to 18¢. Unwashed fleece combing 13½ to 14¢. Clothing 15½ to 16½¢.

Tallow. Good grades in demand, of colored are a drug on the market. City rendered solid in barrels 6½ to 6¢. Country stock, solid in barrels No. 1 6½ to 6¢. No. 2, 5 to 6¢. Cane No. 1 7 to 7½¢. No. 2 6 to 6½¢.

Horse hair. Farmer or pedler stock farmer with slight increase in price. Farmer pedler stock 38¢ to 40¢. Old Rubbers, etc. Are in moderate demand deliveries about sufficient to supply present demands at unchanged prices. Rubber Boots and Shoes according to trim 6 to 8½¢. Auto tires, 6 to 8¢. Bicycle tires, 3½ to 4½¢. Lead, heavy 3 to 4¢. Tea lead 2½ to 3½¢. Brass, heavy 9 to 10¢. Light 7 to 8¢. Copper, heavy, 11 to 11½¢. Light 7 to 8¢. Zinc 2½ to 4½¢.

RAW FURS.

The Hudson Bay Co's fur sales are on in London this week. The general fur situation is unchanged. Mink are easier on account of poorer quality Muskrats are in poor demand and stocks accumulating.

No. Ont., Lake Sup., Que., N. S. N. B., Lab., Newfld. Mink—No. 1, \$10.75-12.50. No. 2, 6.25-3.00. No. 3, 1.75-1.25. No. 4, .50-25.

Red Fox—No. 1, \$11.00-5.00. No. 2, 6.00-4.50. No. 3, 2.50-1.50. No. 4, 1.00-25.

Muskrats, N. S., P. E. I., N. B.—Spring 37-35. Winter 75-30. Fall 65-25. Kitts 15-08.

Wolf—No. 1, \$7.25-2.50. No. 2, 3.25-2.00. No. 3, 1.50-1.00. No. 4, .75-40.

Skunk—No. 1, \$4.40. No. 2, \$3.05. No. 3, \$2.25-1.50. No. 4, \$1.25-.50.

Raccoon Dark \$6.00-2.50. Heavy \$4.75-.50. Regular \$3.25-.25. Lynx \$27.00-1.00. Lynx Cat \$9.00-2.00. Bear \$27.50-.50. Silver Fox \$100.00-100.00. Otter, N. S., N. B., Que., \$40.00-5.00. Beaver Castors, \$13.00-9.00. Blue Pelts or Unprime skins are always figured at value.

THE TURF

HORSE NOTES.

(Specially Contributed.)
Just wait till you see me next year is what the "boys" are saying now. Everyone will have a speedway race if the excitement keeps up. What a grand tonic up the ice racing has given the horse lovers.

Braze Girdle 2.04½ and Arona McKinney 2.08½ are recent arrivals in Russia from the United States. Both will be used as brood mares.

Ed. Geers, the "silent man," now in his sixty-sixth year, will be cut again on the big line behind a good string.

Great disappointment was expressed over the failure to pull off the Heartz races last week. The ice was, however, too dangerous to monkey with and the officials very wisely postponed them.

Kandol 2.30 by Kalol 2.19½ won an ice race in Amherst last week. Time, 1.08.

It is said that Vesta Boy 2.05½ will be sold this spring. If so one of the greatest of them all will have changed hands. This cast iron warrior has

more scalps to his credit than any other horse in Canada.

There are at present five Bingen stallions in the first or second generation in this province, viz., Commodore Ledgerd, Bottom 2.23½, Mayor Todd, Catalan, and Aquiri 2.27½. This makes the Bingen the predominant strain in our breeding lines. It is remarkably productive of speed.

The ice meets are about over and before we know it we will be watching the workouts on the track. This should be by long odds the most exciting season for years.

There never has been a year when speed was at such a premium as this year. The breeding of speed in the next few years will surely be a good investment. The horse was never so firmly entrenched as now and the wise stock-owner who anticipates the demands of the future by breeding along speed lines will be rewarded.

Those of us who love to see Father Time bested, would have been delighted if Shadow Chimes 2.05½, the handsome pacer owned by W. F. Robins of this city, could have been earned loose on the speedway against the watch. He would have given a minute a close shave.

Through the energy of F. R. Newson of The Guardian a full report of the Hotel Victoria Ice Races was sent to the Associated Press and by them flashed all over America. It is the first time in our ice racing history that such a stunt was pulled off. Wire-ups and photographs were also sent to the Canadian Courier and Canadian Countryman and will in the course of the next week be found decorating their pages.

John MacDonald of Johnston's River is one of the most progressive horsemen on the Island. When John sees a horse that suits him he doesn't mind the price. He made an offer for the Rexall Girl the other day that gave her owner a hard effort to decline. Perhaps though he may hand her over at a later date.

What a splendid lot of good fellows we have in the racing game in Charlottetown. We raced all winter, had our ups and downs and are just as good friends as ever. We are certainly setting an example of pulling together.

HORSE NOTES.

(Specially Written.)
One of the most attractive features of the March Horse Show in Charlottetown on the 19th will be A. N. McKay's offerings. These are all in splendid condition, and are great prospects for the track or stud.

Don't fail to read A. N. McKay's ad in this issue. If you want a ready prospect by Nancy Mae 2.36. She has been miles in 2.25 with very little work.

The Rexall Girl is now owned by John McDonald, Johnson's River. She is a classy trotter and will make a great brood mare being standard and registered. She will be bred to Bottom 2.23½. What a colt it should be—with its subtle inheritance of Bingen.

Ruby Reddin (standard and registered) is now owned by J. R. Bar. He Examiner. Ruby is a great roadster and has tramped miles close to 2.30. She will be bred to Bottom 2.23½. The colt will be an inbred Kremlin.

Horse Show next week March 18th and 19th. Sale on latter date. Take the two days off and see the show.

A meeting of horsemen and race secretaries will be held in Charlottetown on March 19th, to make arrangements for the summer circuit.

"Vesta Boy" 1.05½ is to be sold in Summerside on May 1st. This grand warrior has made more turf history probably than any other horse in Canada and is still capable of making it. Last year he took the measure of all the Free For-Alls and came home with the scalp of four victories dangling to his belt. Any one who wants a good prospect for lifetime Freees will do well to have a bid on Vesta.

We think the F. R. Heartz Free For All trot was about the best racing seen here for years. Seven corking heats over heavy ice was a test of staying power.

P. S. Brown, proprietor of the Revere Hotel is hoping the ice will be good enough to pull of the 2.24 trot for which he has given a purse of \$100. Mr. Brown is a good game sport and enjoys a race as much as anybody.

George Ballingall offers a cream separator and buttermaker for a farmer's race. These two prizes aggregate in value nearly \$100. Mr. Ballingall's generosity should not be forgotten by our farmer friends. There is no "fly" on Ballingall when it comes to big heartedness.

HORSE NOTES.

There are only seven living trotting stallions with records below 2.05 and four of them are owned in Europe. These four are Crescens 2.02½, Billy Burke 2.03½, Bob Douglas 2.04½, and General 2.04½, all of which are now owned in Russia. America still has the Harvester 2.01, John A. M. Kerron 2.04½, and Colorado E. 2.04½. Bob Douglas 2.04½ was sired by Todd 2.14, sire of Mayor Todd owned by Hammond Kelly, Southampton. Intending breeders of high class trotters would do well to look up Mayor Todd's breeding in this paper. The horse himself is one of the best individuals ever brought to P. E. Is-

land and his breeding is gilt edged.

BOTTOM BOOMLETS.
Bottom has a great producing dam. Bottom has a full sister with a mark of 2.14½ on a half mile track. Bottom has a full sister with a 3 year old mark of 2.18½.

Bottom has size, strength, beauty, speed and soundness, the five cardinal virtues in a sire.

Bottom has the speed, the breeding and the youth to produce the best.

Bottom is by Bingara and resembles him closely. Like his sire he is extremely handsome.

GOOD ROADS
GOOD ROADS BY ROADMASTER.
Article 3.

Road Machinery; its Operations.—In introducing this article I want to explain the way the road machinery is handled under the present act, also the lack of machinery and the importance of having it operated to best advantage.

The road machine is placed with a machine operator for so many road districts and he can take it in one district first or last as he thinks best. When he does it costs \$2.00 per day for his services, no difference whether he is a good man or a poor one, it is all the same thing. Now, in the previous article I explained that the roadmaster only has so much money to do a lot with and it is up to him to get the most work possible done in as short a time as possible and the road machine is the most expensive part. For instance 4 teams at \$3.00 per day, \$12.00, \$2.00 for operator and there must always be a man or two for assistance, in many cases the total runs to at least \$18.00 per day.

Now this operator is under no obligation to the roadmaster only to get his pay. The more days they certain by the more dollars, and further, the teamsters care only to get in their day and get \$3.00. It is no use for the roadmaster to make a kick about it as the operator will tell him he is running the machine, so you see the roadmaster's account has to suffer. Certainly there are a few good operators but there is a lot of poor ones too. I might add here that what makes a good roadmaster may be summed up in three things, namely Honesty, Rush and Judgment. First, that he has given the roadmaster a good, honest day for the money he receives. Second, to rush along and keep everything moving every possible moment, always have the machine in readiness at the hours set because if teams are waiting ½ hour greasing and fitting up machine it all counts for loss. Lastly, judgment, this is the main thing required because he might have both honesty and rush and lack judgment and he is no good at all. He might keep teams hauling back and forward over one piece of ground a whole day and then not make a road. He could not set his machine properly for nice, level work and various other things might lack all through want of judgment.

Now when the roadmaster makes his return he has to tell how much was done each day and, I tell you, some were ashamed to tell the exact amount done for the most of people have a good idea of what ought to be done.

(To be Continued.)

SHILOH
quickly stops coughs, cures colds, and heals the throat and lungs. 11 25 cents.

TODD 2.14 1-4
Sire of 82 Standard Performers
Sire of 12 with records of 2.04 1-4 to 2.10
Sire of
MAYOR TODD
(47893) trial 2.18 last half 1.08

MAYOR TODD 47893
Sire of 12 in 2:10, inc. Bob Douglas 2:04 1-4, Northern Man 2:06 1-2, Gordon Todd 2:07 1-4, Iowa Todd, 2:07 1-2, Geo. Todd 2:07 3-4, Todd Mac 2:07 3-4, Al Stanley 2:08 1-4.

ALCLAYETTA
Record 2:36 1-4.

FANELLA 2:13
Dam of 5, including Sadie M., 2:05 1-4, Magowan (2) 2:10 3-4 etc.

ALCLAYONE 1:30.8, 2:30 1-4.
Sire of 19, including Louise G. (4) 2:08 1-2, Lolla Wilkes 2:11 1-2, William H. 2:15 1-4.

WILKETTA
D'n of Alclayetta 2:36 1-4.

MAY KING 1:32.2, 2:20.
Sire of 27, including Bango 2:30 1-4.

YOUNG MISS
By Young Jim 2:00.
RION 1:50.0, 2:07 3-4.
Sire of 7 in 2:10; dams of 4 in 2:0 etc.

DIEU ET MON DROIT 2:10.
By Distress 1:59.
Sire of 1; grandam of 5.

ALCYON 2:32.7.
Sire of 2; Martha Wilkes 2:08 3-4, etc.

CLAYRENE
By Harry Clay 45, 2:29; (Dam of 1 in list.)

KY. WILKES 1:54, 2:21 3-4.
Sire of 20; dams of 23.

LAMBRETTA
By Daniel Lambert 1:02.

Mayor Todd is a very handsome and extremely good gaited trotter, stands 15.3 1-2 hands, weighs over 1100 lbs and is a good son of one of the best horses that ever lived. He was trained a little on the track at the Johnson farm and trotted a mile 1.18 last half in 1.08. Intending breeders should look him over before booking your mares. Terms \$15.00 for season. For further particulars apply to the owner.

HAMMOND KELLY
Phone R 16
11, Elm St.

Whenever you feel a headache coming on take
NA-DRU-CO Headache Waters
They stop headaches promptly and surely. Do not contain opium, morphine, phenacetin, acetanilid or other dangerous drugs. 25c. a box at your Druggist's. 125 NATIONAL DRUG AND CHEMICAL CO. OF CANADA, LIMITED.

A Hot Dish for a Cold Day
It is not easy to warm a poorly nourished body. Heat and strength do not come from overcoats or flannels. Bodily warmth and vigor come from foods that are rich in blood-making, tissue-building material.

SHREDDED WHEAT
is all fuel-food—no waste, no indigestible material to clog the system and tax the vitality. Two Shredded Wheat Biscuits, heated in the oven and served with hot milk and a little cream, for breakfast, will supply all the heat and strength needed for a half day's work. Not "pre-digested," but "ready-to-digest," not compounded, flavored or "treated" with anything—just plain, whole wheat, steam-cooked, shredded and baked a crisp, golden brown. It makes delicious combinations with baked apples, stewed prunes or other fruits, fresh or preserved.

MADE IN CANADA
A CANADIAN FOOD FOR CANADIANS
The Canadian Shredded Wheat Company, Limited
Niagara Falls, Ont.
Toronto Office: 49 Wellington Street East P-73

WORK THIS PUZZLE! SEND NO MONEY!
FREE **NOIS** **\$50. CASH PRIZE**
ALSO A PRIZE OF \$70 FOR NEAREST SOLUTION.
Somebody who needs a few particulars of this puzzle contest tell us WHAT THREE STATES IN THE UNITED STATES ARE REPRESENTED by the above Three Slices, which will receive a \$50 GOLD WATCH or \$50 IN GOLD MONEY! Try it at once. It may be you. Write the names of the States in a letter or postcard, giving your Name and Address
BRITISH PREMIUM CO. Dept. 18 Montreal, Canada.

TODD 2.14 1-4
Sire of 82 Standard Performers
Sire of 12 with records of 2.04 1-4 to 2.10
Sire of
MAYOR TODD
(47893) trial 2.18 last half 1.08

MAYOR TODD 47893
Sire of 12 in 2:10, inc. Bob Douglas 2:04 1-4, Northern Man 2:06 1-2, Gordon Todd 2:07 1-4, Iowa Todd, 2:07 1-2, Geo. Todd 2:07 3-4, Todd Mac 2:07 3-4, Al Stanley 2:08 1-4.

ALCLAYETTA
Record 2:36 1-4.

FANELLA 2:13
Dam of 5, including Sadie M., 2:05 1-4, Magowan (2) 2:10 3-4 etc.

ALCLAYONE 1:30.8, 2:30 1-4.
Sire of 19, including Louise G. (4) 2:08 1-2, Lolla Wilkes 2:11 1-2, William H. 2:15 1-4.

WILKETTA
D'n of Alclayetta 2:36 1-4.

MAY KING 1:32.2, 2:20.
Sire of 27, including Bango 2:30 1-4.

YOUNG MISS
By Young Jim 2:00.
RION 1:50.0, 2:07 3-4.
Sire of 7 in 2:10; dams of 4 in 2:0 etc.

DIEU ET MON DROIT 2:10.
By Distress 1:59.
Sire of 1; grandam of 5.

ALCYON 2:32.7.
Sire of 2; Martha Wilkes 2:08 3-4, etc.

CLAYRENE
By Harry Clay 45, 2:29; (Dam of 1 in list.)

KY. WILKES 1:54, 2:21 3-4.
Sire of 20; dams of 23.

LAMBRETTA
By Daniel Lambert 1:02.

Mayor Todd is a very handsome and extremely good gaited trotter, stands 15.3 1-2 hands, weighs over 1100 lbs and is a good son of one of the best horses that ever lived. He was trained a little on the track at the Johnson farm and trotted a mile 1.18 last half in 1.08. Intending breeders should look him over before booking your mares. Terms \$15.00 for season. For further particulars apply to the owner.

HAMMOND KELLY
Phone R 16
11, Elm St.